

Rahulya Potla

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EDUCATION

University Of North Carolina at Charlotte

Master's in Computer Science — GPA: 3.5/4

CMR College of Engineering and Technology

Bachelor of Technology in Computer Science and Engineering

Charlotte, USA

Aug 2022 - May 2024

Hyderabad, India

July 2016 – May 2020

EXPERIENCE

Arch Mortgage Insurance

June 2023 – Aug. 2023

Application Development Intern

Greensboro, NC

- Improvised the hourly rate of loan registrations processed by 25% by creating microservices to automate decision making.
- Enhanced the search time efficiency of the File System repository by automating the update process of the DB Metadata.
- Built CI/CD pipeline jobs in Jenkins, automating builds and executing 400 additional tests, boosting test coverage by 35%.
- Engineered SQL join conditions with filters to optimize data merging and reducing report generation time by 7.5 minutes.
- Reduced data processing time by 4% by the creation of queries to retrieve and manipulate the data stored in MongoDB.
- Spearheaded a POC to convert HTML files to PDF using *iText* Library to enhance document security and compliance.

Planon Software Services

July 2021 – July 2022

Software Engineer

Hyderabad, India

- Developed core Java and Java EE-based modules, automating maintenance scheduling and inventory management.
- Designed multi-threaded modules using Java concurrency utilities, synchronized blocks, and locks for parallel processing.
- Created over 500+ Unit and integration test suites and leveraged Mockito to mock database objects and stubbing dependencies to simulate test scenarios, achieving a 15% reduction in production defects.
- Streamlined web application testing with Selenium, overseeing 300+ test cases for comprehensive automation testing.

Arcadis IBI Group

Aug. 2019 – June 2021

Associate Software Engineer

Hyderabad, India

- Engineered diverse modules within an SPA, leveraging React.js and Deck.gl to create geospatial polygons and heatmaps.
- Designed, and developed GIS applications tailored to the client needs, adhering to industry best practices and standards.
- Enhanced the Curb Analyzer tool with a Comparison dashboard crafted using Chart.js and D3.js, resulting in a 20% efficiency boost in urban mobility planning which increased the company revenue by 10% from the previous quarter.
- Integrated the app with Redux to perform asynchronous operations resulting in a 4% reduction in load times.
- Implemented pagination and declarative routing to enable dynamic data rendering enhancing user experience.
- Led the development of a generic library of 50+ UI components using Bootstrap and styled-components, reducing development time by 30% and enabling consistent branding and user experience.

TECHNICAL SKILLS

Technologies: C/C++, Java EE, Python, JavaScript, HTML5, CSS, ReactJs, Redux, NodeJs, ChartJs, D3.Js, REST API, Bootstrap, Styled Components, SASS, Tailwind CSS, Git, JIRA, Splunk, Maven, CI/CD, TDD, Agile Practices and Microsoft Office suite

Frameworks: Spring Boot, JUnit, Django, JAX-RS, Mockito and Selenium Web Driver

Programming skills: Architectural Design Patterns, Microservices architecture, Object Oriented Design Principles, Data Structures and Algorithms and Low-Level System Design

Databases: Oracle, SQL server, MYSQL, MongoDB, PostGreSQL and Firebase

PROJECTS

A Merge Sort algorithmic visualizer

- Developed a Merge Sort Visualizer application using React, JavaScript, and CSS animations to illustrate sorting logic effectively.
- Demo URL: <https://rahulyapotla.github.io/SortingVisualizer/>

An Online trading app

- Developed an online trading web app using NodeJs, ExpressJs, MongoDB and MVC Design Pattern.
- Github URL: <https://github.com/rahulyapotla/A-trade-website>

IPL Dashboard

- A Full Stack web application developed with Spring Boot and ReactJS.
- GitHub URL: <https://github.com/rahulyapotla/IPL-Dashboard>

ACHIEVEMENTS

Pearl Hacks 2024 Winner - PublicEye

- Received the overall Pearl Hacks winner and Appian: Most Innovative Hack awards for the development of a mobile application using Swift, enabling citizens to report infrastructure issues. Additionally, spearheaded the development of an administrative dashboard in React with pincode-based filtering for efficient area-specific management.
- DevPost URL: <https://devpost.com/software/publiceye-8b9qew>